

The Scientific American Supplement. Index for Vol. 36.

JULY-DECEMBER, 1893.

The * Indicates that the Article is Illustrated with Engravings.

A					
Aborigines of Australia. *14721. *14771	Bread fruit tree. 14735	Cocoa-nut, butter of. 14790	Engine speed, limitation of. 14784	Gas, coal, effect oxygen. 14914	
Abyss of Jean Nouveau. 14754	Brick, fire, kieselguhr. 14698	Coffee culture, Brazil. 14917	Engineering education, ideal. 14909, 14715	Gas engine in electric light work. 14798	
Accumulator, chloride. 14977	Brick, glass, structures of. *14697	Coffee, oil of. 14743	Engineers, French, visit of. 14907	Gas gun, Giffard. *14982	
Acetone, estimation of. 14989	Bricks, fire, silicious. 14621	Coin, disappearance of. 14734	England, Bank of, in the. 14925	Gas, high pressure, work of. 14703	
Acid, carbonic, gravimet. det. *14904	Bricks, magnesia. 14713	College, Sibley. 14587	Entomology, applied. 14979	Gas, oxy-oil. 14914	
Acid, gallic, color reaction. 14986	Bridge across Danube. *14979	College, technical, need of. 14586	Eserine, green coloring from. 14954	Gases, diffusib. through rubber. 14870	
Acid, nitric, condensation of. *14930	Bridge, ferry, Bilbao. *14906	Color changes, reagents. 14917	Essence, lemon. 14927	Gases, separa. from water. *14870	
Acid, sulphuric, concentration. *14773	Bridge at Grunenthal. *14916	Color processes, American. 14812	Ether, the. 14877	Gauge, tide, at Rouen. 14785	
Acid, sulphophosphoric, salts of. 14700	Bridge, movable, new. *14907	Colosseum of Rome. *14947	Ether, luminiferous. 14821	Gear, power, locom. and car. *14890	
Aerostation. 14901	Bridge, overhead, Mersey. *14901	Columbia, ship, performance. 14906	Ether and matter, connection. 14876	Gearings, transmission. 14877	
Amphibious, conference on. 14724	Bridge, swinging, Taranto. *14913	Columbia, warship. *14936	Etymology of science terms. 14763	Generators, steam, improved. *14909	
Agriculture, inventions in. 14982	Bright's disease and insanity. 14906	Columbus, portrait of. *14922	Excavator, steam. *14936	Geography, physical, new. 14975	
Air, chemistry and physics of. 14903	Brindley, the engineer. 14957	Columbus relics at the Fair. 14911	Exchange, Labor, Paris. 14712	Geomagnetism, the. 14878	
Air, liquid and solid. 14901	Brooklyn Institute exhibition. 14976	Combustibles, calorimetry of. *14654	Exchange, Stock, Madrid. *14960	German day at Chicago. *14798	
Air in motion, in chem. indust. 14984	Brushes, abuses of. 14981	Combustion, spontaneous. 14849, 14904	Exercise, physical, moral effect. 14873	Germany at Columbian Expos. 14900	
Air, navigation in. 14981	Bubbles, oil. 14877	Comet, meteor, of 1866. 14905	Exercise and the respiratory gases. 14758	Germany at World's Fair. *14931	
Air, oxygen of, source. 14790	Buddha, image of. *14923	Comma bacilli, detection. 14901	Exhibition, confes. and bakery. *14972	Gibraltar. 14909	
Alcohol, absolute. 14757	Building, masonry, moving a. *14911	Compas for spirals. 14612	Expedition, polar, Nansen's. *14909	Glares, the. 14978	
Alcohol from peat. 14790	Buildings, State, at Fair. *14942	Compounds, trioxide, color react. 14906	Experiments in color change. 14917	Glaciers of Greenland. 14918	
Alcoholic, improved. *14902	Buys, luminous. *14930	Concentration appar., Kessler. *14772	Explosives, pressure devel. by. 14737	Glanders. 14978	
Alkaloid, new, in coffee. 14982	Buildings, State, at Fair. *14942	Condensation apparatus, new. *14930	Exposition, Columbian. *14933, 14934	Glass making, problem in. 14901	
Allen, Horatio, ride of. 14950	Burma, marriage in. 14779	Congress, Electrical, at Chicago. 14788	*14586, *14599, *14601, *14631, *14648	Glass, permeability of. 14710	
Alloys, effects of. *14583	Butter of cacao. 14789	Congress, Zoological, Chicago. 14776	*14670, 14672, *14682, *14684, *14695	Glass pipes, tubes and gutters. 14747	
Aluminum Company. 14906	Butter of cocoa nut. 14790	Consumption, music and. 14765	*14696, *14723, *14736, 14749, *14750	Glass surfaces, grinding. 14976	
Amber, oil of. 14900	Butter, lemon. 14936	Conveyer plant, pneumatic. *14618	*14705, *14775, *14778, *14795, *14798	Glass, Venetian. 14900	
Amen mummy coffins. 14974		Corn, Indian, oil of. 14789	*14812, *14824, *14846, *14863, *14908	Glue, leather, valuation of. 14900	
Ammonia sulphate as manure. 14644		Cornphone. 14908	*14887, *14890, *14942, 14943, 14953	Glycerin as a developer. 14948	
Amphitheater, Flavian. *14947		Costumes of all lands. *14933	Exposition, Antwerp. *14907	Gold extraction, electrolytic. *14715	
Amulet, a Caffre. *14922	C	Cotton industry. 14738	Exposition, Colum. architect. hist. 14748	Gold, origin of. 14935	
Analysis, gas, by sound. 14906	Cabbage, Savoy. *14644	Cottonseed oil industry. 14738	Extracta, liquid, organic. *14943	Golden rose of virtue. 14906	
Aniline stains. 14974	Cables, electric, underground. 14787	Cough, whooping, cure. 14901	Extracta, organic, so-called. 14903	Grafton, cruiser, British. 14782	
Animals, intelligence of. 14907	Cacao. 14921	Counter, distance, for bicycles. *14733	Eye, human, photography of. *14718	Grain elevators, American. *14906	
Annexation projects. 14780	Cacao tree. 14920	Coupling, car, new. *14591		Grape preserves and jelly. 14907	
Anthurium Wambeckianum. *14983	Caffeine. 14982	Coupling, elastic, Brancher's. *14910		Grape seed, oil of. 14799	
Anti-emetic, menthol as. 14643	Cairo, street in. *14909	Coupling, elastic, Snyder's. 14747	F	Grapes, raisin, California. 14905	
Aphasia. 14938	Cairo, streets of, at Fair. 14738	Crane, fifty-ton. 14901	Fabrics, waterproof, ornamenting. 14929	Grapes and wasps. 14907	
Are, electric, light of. 14984, 14747	Calce, cream, lemon. 14927	Crane, hydraulic, Italian. *14909	Fair of Hurdwar. *14909	Grass trees, Australian. *14771	
Armature, non-sticking. *14949	Calorimetry, apparatus for. *14974	Crane, tipping, improved. *14933	Fair, World's, Chicago. *14933, 14934	Gravimeter for determ. of CO ₂ . *14904	
Armor plate, Harveyized. 14908	Camera, opera glass. 14907	Crocodiles as scavengers. 14936	*14586, *14599, *14601, *14631, *14648	Great Britain, steamer. *14907	
Arrowroot manufacture. 14920	Canada and the Chicago Fair. *14786	Cruiser, French, Alger. 14909	*14670, 14672, *14682, *14684, *14695	Greenheart tree. 14723	
Arsenic works on the Tamar. *14714	Canal, Corinth. 14759	Cruiser Grafton, Japanese. 14722	*14696, *14723, *14736, 14749, *14750	Greenland, opening up of. 14970	
Arsenical well boring. 14909	Canal, the longest. 14931	Culture, electric. 14978	*14795, *14775, *14778, *14795, *14798	Gully cleaner. 14717	
Arts, Liberal, at Fair. 14943, 14953	Canal, North, and Baltic Sea. *14615	Curiosities, a few. *14922	*14812, *14824, *14846, *14863, *14908	Gun, gas, Giffard. 14902	
Arts, Liberal, Palace of. 14943, 14953	Canary rosewoods. 14781	Currents, alternating, power. 14913	*14887, *14890, *14942, 14943, 14953	Gun practice, societies for. *14727	
Asphalt, genesis of. 14738	Cane growth, tropical. 14903	Custard, lemon. 14926		Gutters, glass, manufacture. 14747	
Association, Brit., chemistry. 14983	Cannon practice societies. *14727			Gypsum, utility of. 14954	
Association, Brit., physics at. 14975	Carbon in electr. engineering. 14901	D			
Astronomy, woman's work in. 14909	Carbon, silicic of. 14901	Dagger, Marutao. *14922			
Atmosphere. *14905	Carbonometer, new. *14937	Daguerreotype process. 14912			
Atoms and sunbeams. 14905	Carborundum. 14954	Dam, masonry, construction. 14906			
Austria, exhibit, at World's Fair. *14702	Carborundum, hardness of. 14982	Dandelions as weeds. 14903			
Australia, aborigines of. *14721, *14771	Car coupling, new. *14901	Deauntation, apparatus for. *14793			
Autumn, colors of. 14903	Car, dumping, new. *14901	Decorations, lecture on. *14940			
Azealeas at World's Fair. 14954	Car ferryboat. *14910	Dopolarizers, nature of. *14649, 14931			
	Cars, power gear for. 14980	Developer, glycin as. 14948			
B	Carumalun. 14974	Developer, new, metal. 14929			
Bacilli of disease, destruction. *14677	Carnot, President. *14943	Development, photo., physical. 14941			
Bacteria, chemistry of. 14981	Carpet cleaning, steam. *14954	Diamond in meteoric iron. 14902			
Balloons, steam. *14987	Carriage, steam, an old. *14909	Diamonds, properties of. 14909			
Bamboo. 14974	Casciana, baths of. 14942	Digestion. 14902			
Band saw machine. 14950	Casale, aerial, Antwerp. 14907	Disco Island. 14795			
Bank of England, in the. 14925	Cassia, products of. 14938	Diseases, acute, nourishment in. 14905			
Baths of Ischia. 14942	Cataarrh, intestinal, chronic. 14901	Diseases of old age. 14904			
Battery, storage, chloride. 14977	Catastrophe at Scheidegmuhl. *14734	Disinfectants, germicide, power. 14977			
Batteries, storage, electrodes. 14949	Cathetometer, simple. *14912	Dispersion, anomalous, theory. 14972			
Batteries, storage, France. 14941	Cattle struck by lightning. 14755	Distillation of tar, Germany. 14702			
Battle ship Massachusetts. *14919	Cellulose derivatives. 14708	Diversions, scientific. *14906			
Bay, oil of. 14742	Cement, Portland. 14910	Dogs, can they talk? 14975			
Beacons, floating. *14989	Centers, populous, of world. 14703	Doryanthes Guilfoylei. *14735			
Bearings, ball. *14908	Cephalopod, a luminous. *14779	Drugs, machines. *14972			
Beaver and its ways. 14903	Cevic, steamer. *14902	Dragon's blood. 14770			
Beetle, pine. 14985	Chain, steel, weldless. *14909	Dulcin. 14901			
Beets, sugar, in Europe. 14773	Chair, Sedan, on wheels. *14954	Duodenum, secretion of. 14952			
Beets, sugar, manuring. 14953	Chappe, Claude, statue of. *14917	Dupuy de Lome, Don. *14988			
Benol, purification of. 14774	Chemical change, conditions. 14901	Dupuy de Lome, Senors. *14987			
Bering Sea decision. 14786	Chemical Industry, Society of. 14700	Duty, a present. 14907			
Bevel wheels, curious. 14905	Chemistry at Brit. Assoc. 14983	Dynamite disaster, Santander. *14964			
Bicycles, distance counter for. *14733	Chemistry, electrical. 14984				
Bilbao harbor works. 14914	Chemiotaxis. 14945	E			
Bilbao, works at. *14906	Children, French, employment. 14902	Ear, human, section of. *14900			
Biology, relations of. 14932, 14943	Chimneys, picturesque in. 14905	Eating, pleasures of. 14904			
Bird catchers, London. 14907	Cholera bacilli, detection. 14901	Ebonite, transparency of. 14904			
Birds, flight of. 14981	Cholera, nurseries of. *14956	Education, engineer, ideal. 14909, 14715			
Birds, how they steer. 14756	Cholera epidemic. 14902	Education, scientific, advantages. 14984			
Biscuit, lemon. 14927	Chronology, Egyptian. 15000	Education, technical. 14906			
Bitumen, genesis of. *15002	Cigar lighter, electric. 14903	Eggs of insects. 14935			
Bizerte, port of. *14908	Circus, Hagenbeck's. *14943	Electric interference phenom. 14976			
Blasting by electric heat. *14680	City, Roman, discovery of. 14794	Electricity, disch. through gases. 14913			
Bleaching cotton yarn. 14929	Cities, populous, of world. 14703	Electricity and light. 14913			
Bleaching micro. sections. 14974	Clamp, vase, Ailday's. *14902	Electricity, power from. 14910			
Blue Mountain, geologist at. 14753	Clarinet, new. *14908	Electricity, vibrations of. 14785			
Boats, Japanese. *14986	Cloth, to test finish of. 14714	Electrification of earth, disturb. 14976			
Boiler, water tube, marine. 14907	Clouds, fogs and lightning. 14908	Electrodes for batteries. 14949			
Boilers, improved. 14909	Clutch, elastic, Brancher's. *14910	Electrolysis of gold. *14715			
Boilers, oil-fired, at Fair. *14971	Coal gas, heat of combust. 14900	Electrolysis of salt. 14900			
Bonaparte, an American. 14943	Coal mines, utilization. 14906	Electrolytic indicator. 14902			
Bonax, manufacture of. 14943	Coaling ships at sea. *14906	Electroplating vessels' hulls. *14982			
Boys to mend. 14950	Coca. 14921	Elevators, floating. *14915			
Brain and memory. 14900	Coca leaves, a study of. 14930	Elevators, grain, American. 14906			
Brazil, events in. *14984	Coca. 14921	Empiricism, modern. 14903			
Brazil, revolution in. 14989	Coca appeal case. 14707	Enamel for papers. 14921			
Bread, bleaching. 14989					

- J**
Jatropha, oil of.....14741
Jean Nouveau, hymn of.....14734
Jelly, grape.....14807
Jelly works, Mississippi.....14807
Joists, dimensions of.....14784
Jowett, Benjamin.....14791
Juice, clarification of.....14877
July Fourth at the Fair.....14798
Jute.....14873
- K**
Kadamba tree.....14886
Kaleidoscope, reflecting.....14851
Kentucky building, Fair.....14842
King of Siam.....14791
- L**
La Hoya, Madrid.....14780
Labor syndicates, French.....14712
Lalia, Novelty.....14800
Lactine.....14780
Lakes, Minnesota.....14825
Lamps, mine.....14732
Lantern picture developer.....14848
Lantern stereoscope.....14851
Larynx, artificial.....14834
Larynx, diseases of.....14872
Launch of the Civic.....14802
Laurus nobilis, oil of.....14747
Leaves, autumnal.....14803
Leaves, foliage, chemistry.....14830
Legends of overflowing wells.....14754
Lens, tele-photo, new.....14822
Lens, tele-photographic.....14701
Leonida of Nov. 18.....14804
Library, Congressional, new.....14825
Life saving device.....14810
Light and electricity.....14813
Light of the electric arc.....14844, 14747
Light sources, study of.....14804
Light vibrations.....14785
Lighter, electric.....14803
Lighthouse, Cape Here.....14803
Lightning, clouds and fogs.....14828
Lightships.....14839
Lithum Lowii.....14819
Lined oil for paint and polish.....14830
Lined oil varnish.....14782
Liquids, color changes in.....14817
Liquids, density, experiment.....14806
Liquids, mixed, contractions.....14801
Liquids, motions of, study of.....14839
Liquids, organic, from glands.....14850
Lo Bengua, King.....14838
Lobster, geometrical.....14744
Locomotion in air.....14801
Locomotion on land and in water.....14800
Locomotive, evolution of.....14800
Locomotive, railway, apparatus.....14834
Locomotives, old, at Fair.....14819
Locomotives, power gear for.....14800
Louisiana building, Fair.....14842
Lucania, steamer.....14803
- M**
Machine, Wmshurst, new.....14811
MacMahon, Marechal de.....14804
Maize, oil of.....14789
Maizeine.....14742
Malt, substitute for.....14742
Mammal, the tallest.....14878
Man, bodily powers of.....14800
Maneuvers, Austro-Hungarian.....14879
Manufacture, chemical, Russia.....14813
Manufactures, German, science in.....14807
Manure, ammonia sulphate as.....14844
Marine weakness of Britain.....14728
Marriage in Burma.....14779
Maryland building, Fair.....14842
Mask, Cingales.....14822
Match, electric.....14803
Matches, lucifer, invention.....14882
Matter, densities of.....14806
Mead, Olive.....14810
Measure, electric, units of.....14786
Mecca and Hurdwar.....14856
Mechanical equivalents.....14808
Mechanical science.....14809
Mechanisms in nature.....14809
Mediterranean, naval control.....14805
Medusa of Lake Tanganyika.....14735
Mello, Admiral di.....14803, 14805
Memorizing, advantages of.....14808
Memory, freaks of, strange.....14833
Menthon as an anti-emetic.....14843
Mercury, distillation of.....14814
Messenger balls, marine.....14810
Metal plates, Nan's method.....14823
Metals, flames of.....14802
Metals, nitro.....14802
Meteorite, Canon Diablo.....14802
Meteorite, Canon Diablo.....14802
Motel.....14822
Microbes, destruction of.....14877
Micrometer, Poynting's.....14812
Microscopical notes.....14874
Military improvements, suggest.....14835
Milling, modern.....14829
Milk, fatty matter of.....14808
Milk, phosphates in.....14843
Mills, paper, in India.....14871
Mine lamps.....14782
Mine lamps.....14782
Mine velocipede.....14800
Mines, coal, utilization.....14808
Mineralogy, development of.....14825, 14877
Mineralogy, exhibit, Brooklyn.....14825
Mining at Colombian Expos.....14848
Mining by fire.....14826
Mining process, hydrothermal.....14800
Mississippi, banks of, erosion.....14818
Mississippi River works.....14801
Mont Blanc, section of.....14875
Moon, atmosphere of.....14778
- N**
Nationalities, types of, Chicago.....14807
Navigation, aerial.....14801
Navigation, aerial, conference on.....14724
Navy, Brazilian, new.....14804
Navy, British, weakness.....14728
Necropolis, Ancon, Peru.....14851
Negatives, intensifying.....14841
New South Wales building.....14842
News of the world, getting.....14884
Nitrogen, fixers of.....14813
Nomenclature of science.....14783
North Sea-Baltic canal.....14808
- O**
Ocean, Indian.....14830
Ocean, Pacific.....14740
Oceanography.....14828
Oil, almond.....15007
Oil, almond, adulterants.....14830
Oil, cottonseed, industry.....14783
Oil, linseed.....14780
Oil, linseed, for paint.....14830
Oil, linseed, varnish.....14782
Oil, mineral, fat in.....14828
Oil of amber.....14850
Oil, pine needle.....14827
Oil plants of Formosa.....14807
Oil press, Mitchell's.....14838
Oils, essential, distillation.....14757
Oils, extraction of.....14789
Oils, vegetable.....14741
Ontario at World's Fair.....14786
Opera glass camera.....14807
Orange column at World's Fair.....14850
Orchid, hybrid.....14850
Orchid, Paphiophyllum.....14802
Oxide, carbonic, in air, test.....14870
Oxygen, atmospheric, origin.....14790
Oxygen combin. with hydrogen.....14878
Oxygen effect on coal gas.....14814
Oxygen from the air, prod.....14837
Ozone, formation of.....14861
- P**
Pacific, the bed of.....14828
Pacific Ocean.....14740
Pagoda on Menam River.....14798
Paint, luminous.....14733
Paints, luminous.....15000
Paintings, exhibit, at Chicago.....14825
Palace, Horticultural, World's Fair.....14823
Palace of Liberal Arts.....14824
Palacio, Alberto de.....14806
Pantheon of Rome.....14802
Paper, coloring one side.....14732
Paper, platinotype.....14817
Paper, test, electrolytic.....14802
Papers, enameling.....14821
Paphiophyllum grandis.....14802
Parkman, Francis.....14802
Patents, telephone.....14829
Pavements, Kansas City.....14809
Pavilion, French, Chicago.....14775
Pavilion, Russian, at Fair.....14863
Peace, guardians of, education.....14743
Peat, alcohol from.....14790
Peixoto, General.....14883, 14885
Pendulum, wireglass.....14807
Pertussis, treatment of.....14801
Petroleum, genesis of.....14738
Petroleum, refining of.....14841
Pettenkofer, Max v.....14803
Phosphates in milk.....14843
Photographs taken at the Fair.....14846
Photography, diastotype.....14811
Photography of human eye.....14718
Photography, isochromatic.....14841
Photography, varnishes for.....14822
Photography without an objective.....14850
Photo-mechanical reproduction.....14821
Photo-mechanical, color tint.....14746
Photometer, new.....14842
Photometer, Henry's.....14719
Phototaxis.....14845
Physics at British Assoc.....14875
Physics, instruction in.....14876
Physiology, vocal.....14872
Picket fence, improved.....14842
Picture taking at World's Fair.....14846
Pie, lemon.....14827
Pier, sinking, pneumat. proc.....14800
Pig, carrier.....14756
Pigment, animal, remarkable.....14805
Pigments, red, prop.....14808
Pilgrim, cup defender.....14810
Pilocarpine.....14800, 14814, 14827
Pine needle oil.....14827
Pine, oil of.....14780
Pine saw-fly.....14805
Pipes, glass, manufacture of.....14747
Pitch, oil of.....14741
Pitch-pine industry of U. S.....14874
Pixal.....14818
Plane surfaces, testing.....14741
Plant effects at Fair.....14735
Plant, forage, new.....14770
- Q**
Quarry crane, fifty ton.....14801
Quarries, syenite, Assouan.....14754
- R**
Race to the North Pole.....14819
Raffers, dimensions of.....14784
Ragostky, race horse.....14854
Railroad, R. and O., exhibit of.....14889
Railroad, N. Y. C., motive power.....14828
Railway apparatus, Kollman's.....14834
Railway, atmospheric.....14730
Railway, electric, underground.....14844
Rain making.....14880
Rape seed, Chinese.....14807
Refinery, sugar, visit to.....14873
Refractometer, new.....14717
Refrigeration, distribution of.....14717
Refuges, subterranean.....14851
Relics, Columbus, at Fair.....14811
Resistances, comparison of.....14877
Retina, photography of.....14718
River beds, Forest Hill Divide.....14730
River, Mississippi, works.....14801
Road cleaning apparatus.....14717
Roads of Italy and Spain.....14805
Robberies, express, prevent.....14807
Rocks, action of high pressure gas.....14703
Roads, jointed, applications of.....14808
Rolling mill, Etalings.....14858
Roses at World's Fair.....14872
Rubber, old, utilization.....14873
Ruins in Mashonaland.....14803
Russia at World's Fair.....14843
Ruytingen, lighthouse.....14841
- S**
Sainte Marie, ferryboat.....14810
Salt, common, electrolysis.....14800
Salt industry, Astrakhan.....14842
Sails, views in.....14818
Sand frame trick.....14736
Sand shield.....14808
Sanitation, notes and beams.....14804
Sap of trees.....14805
Saw-fly, pine.....14805
School for policemen.....14743
Schools of engineering.....15009
Schools, technological.....14820, 14840
Science in German manufactures.....14807
Science, mechanical.....14809
Sci.-ce, terms used in.....14768
Sclerometer, new.....14875
Screw propeller, inventor.....14880
Screw propellers, efficiency.....14829
Screw propulsion, triple.....14800
Screw steamer, Atlantic, first.....14807
Screw turbine propeller.....14718
Screw vessels, steering.....14805
Seasickness, treatment.....14810
Seal fisheries, Bering Sea.....14800, 14809
Seal rookery, Alaska.....14805
Seal and whale fishing.....14805
Seed, drift.....14805
Seed, sorghum, selection of.....14770
Segregation.....14807
Sensations, cutaneous, sent.....14813
Separators, magnetic.....14818
Sequoias at Amer. Museum.....14819
Sesame seed.....14807
Sewage works, Southampton.....14878
- Shed, moving a, Housen.....14729**
Sheep dip factory, visit to.....14731
Shell, colorimetric.....14874
Shield, sand.....14808
Ship canal, North Sea.....14808
Ship Columbia, performance.....14808
Ship Victory, sails of.....14808
Ship of war Alger.....14809
Ship of war Columbia.....14808
Ship of war Grafton.....14702
Ship of war Italia.....14805
Ship of war, Speedy.....14807
Ship, war, Massachusetts.....14819
Ship of war Victoria, loss.....14879
Ships, electric communication.....14877
Siam.....14732
Siam, fruits of.....14809
Sidewalk, movable, Chicago.....14800
Sieves, woven wire.....14827
Sights with 5 in. telescope.....14706
Signals, electric, transmission.....14802
Silence, towers of.....14778
Silica, volatilization of.....14804
Silver, elect. action light.....14829
Siphon for decantation.....14763
Siphon trap, sinking a.....14761
Sirup, lemon.....14827
Skedaddle, race horse.....14875
Skeletons of man and horse.....14828
Skin sensations, sent of.....14813
Sleep, origin of.....14809
Slides, microscopic.....14874
Smoke on carbonic acid.....14874
Soap powders.....14738
Soap, toilet, transparent.....14821
Soapstone industry, China.....14830
Society of Chemical Industry.....14709
Society Royal, conversazione.....14851
Soda alum, manufacture.....14830
Sodium.....14837
Sodom dam.....14806
Soja bean.....14807
Soja hispida, oil of.....14741
Solutions, wash, transferring.....14806
Sorghum seed, selection of.....14770
Spain, roads of.....14805
Spain at World's Fair.....14807
Sparrow's House, Ipswich.....14783
Spectroscope, Lick Observ.....14737
Speculum, fastening to post.....14801
Specula for telescopes.....14857
Speed, engine, limitation.....14784
Speed, train, table of.....14828
Spherometer, sensitive.....14806
Spider, red, to kill.....14818
Spiral, enchanted.....14806
Spirits of the fountains.....14754
Sponge, lemon.....14826
Staff, dancing, Batta.....14822
Stain, carmine.....14874
Staircase, emergency.....14806
Standards, electric.....14877
Standards of length and mass.....14800
Stanford University.....14744
Stars, constitution of.....14833
Statue of Claude Chappe.....14817
Steam jets, effect electric.....14813
Steamer, cargo, largest.....14802
Steamer, shallow draught.....14851
Steamship Great Britain.....14807
Steamship Lucania.....14806
Steel production, new method.....14828
Steel specimens, protection.....14843
Steeple chase of Paris.....14875
Steering of screw vessels.....14805
Stereoscope, lantern.....14851
St. Gothard R.R., second track.....14808
Still, an improved.....14802
Stock Exchange, Madrid.....14850
Stomach, lavage of.....14850
Stourbridge Lion, trip of.....14800
Striker, steam, improved.....14792
Structures of glass brick.....14807
Suorol or dulcin.....14801
Sugar cane, influ. temperature.....14829
Sugar, loss during evap.....14803
Sugar making, Hawaii.....14873
Sugar process, Cambray.....14811
Sugar, raw, valuation method.....14710
Sugar refinery, visit to.....14873
Sulphur industry of Sicily.....14842
Sulphur in sugar manufact.....14829
Sunbeams and atoms.....14805
Sundial, new.....14806
Sun, eclipse of, recent.....14805
Sun spots and solar envelopes.....14876
Superstition, therapeutical.....14815, 14816
Surfaces, plane, testing.....14741
Sweden, building of, at Chicago.....14805
Swinging festival, Bengal.....14807
Syenite quarries at Assouan.....14754
Synthesis, chemical, method.....14773
- T**
Tablets, Tell-el-Amarna.....14803
Talc.....14808
Talc, how utilized.....14805
Tallow tree seeds.....14807
Tannin, color reaction.....14800
Tapir, Malayan.....14875
Tar distilling in Germany.....14762
Taranto, port, visit to.....14805
Technology, Institute, German.....14802
Technology, schools of.....14820, 14840
Teetotum, draughting.....14806
Telephone patents.....14829
Telescope, 5 in., sights with.....14706
Telescope, reflecting, Newton's.....14802
Telescopes, great, of future.....14808
Telescopes, refracting, large.....14852
Tension, surface, experiment.....14806
Terms, scientific, etymology.....14783
Tests for cloths.....14714
Textile fibers.....14801
Theater, a Javanese.....14809
Therapeutical superstitious.....14815, 14801
- Thring, Edward.....14816**
Thames, connective, staining.....14874
Toluol, purification of.....14744
Tonkin coast, fishing.....14846
Top, gynecologic, geometric.....14800
Torpedo boat, Italian, Surprise.....14807
Towers of Silence.....14778
Trafalgar, Oct. 21, 1805.....14808
Train, 24 hour, to Chicago.....14823, 14801
Train speeds, table of.....14828
Transportation, ancient and mod.....14801
Trap, siphon, steam.....14761
Trap, wireworm.....14874
Tree, cacao.....14829
Tree, grass, Australian.....14771
Tree, the greenheart.....14723
Tree growth, curious.....14874
Tree, Kadamba.....14808
Tree planting.....14722
Trick, and frame.....14786
Trick with a coin.....14734
Troy, new excavations at.....14807
Tuberculosis, prevention of.....14801
Tubes, glass, manufacture.....14747
Tunnel velocipede.....14800
Turacin.....14806
Turbine propeller, screw.....14716
Turbine, steam, new.....14870
Turbine, steam.....14731
Turk, alcohol from.....14790
Turning machine, ball.....14809
Turtle, land, gigantic.....14803
Twig forage.....14831
- U**
United States exhibit, Chicago.....14803
Units of electric measure.....14786
University, Cornell.....14807
University, Stanford.....14744
Utah building at Fair.....14842
- V**
Vaccination, street, in Paris.....14856
Vacuum, production of.....14804
Vanilla cultivation, Mexico.....14808
Varnish, linseed oil.....14782, 14830
Varnishes and varnishing.....14822
Vegetable kingdom, extremes in.....14824
Vegetable oils.....14741
Vegetaline.....14780
Vegetation without oxygen.....15010
Vessels, electroplating.....14802
Vibrations, electric and light.....14765
Victoria, H. M. S., loss of.....14870
Victoria regia.....14707
Victoria, warship.....14806
Victory, ship, sails of.....14808
Vienna, old.....14802
Villa, Hadrian's.....14745
Village, German, at World's Fair.....14802
Village, Irish, at the Fair.....14804
Vinegar, Barbe's process for.....14804
Violin, how to construct.....14805
Vise clamp, Alday's.....14802
Voice, physiology of.....14872
Volcanoes, extinct, of U. S.....14807
Voltaggio, baths of.....14802
- W**
Walnut, oil of.....14741
Walters, tireless.....14840
War in Africa.....14820
Warship Alger.....14809
Warship Columbia.....14809
Warship Grafton.....14762
Warship Italia.....14805
Warship Victoria, loss of.....14870
Wash funnel for precipitates.....14806
Wash solutions, transferring.....14806
Washing powders.....14733
Water boiled by heat of hand.....14806
Water changed into wine.....14807
Water ice, lemon.....14820
Water, magic glass of.....14817
Water, sterilizing.....14801
Water vapor, effect on electr.....14813
Water and wine same vessel.....14817
Waterproof fabrics, ornamenting.....14829
Waterways of United States.....14802
Watermeter, Zepernowsky's.....14813
Waves, electric, interference of.....14804
Waves, electric, passage.....14870
Wax, insect, Chinese.....14753
Wedding procession, Turkish.....14730
Well, Hagar's, at Mecca.....14807
Whale and seal fishing.....14804
Whalebone and whales.....14804
Wheel products, abrasion of.....14747
Wheel, Ferris, World's Fair.....14823
Wheels, bevel, curious.....14808
Windmill exhibit at the Fair.....14848
Wine building, German, Fair.....14749
Wine changed into milk.....14817
Wine changed into water.....14817
Wires, electric, underground.....14787
Wire, woven, and segregation.....14802
Wiring, safe, rules for.....14808
Women, French, employment.....14800
Woods, exhibit of, Chicago.....14750
Woods, facts concerning.....14872
World, the end of the.....14725, 14737
- Y**
Yacht Pilgrim.....14810
Yangtze gorges, through the.....14779
Yawning as a remedy.....14800
Yeast cells, structure.....14802
Yeast without alcohol.....14742
Yoshino, cruiser, Japanese.....14802
- Z**
Zirconia, volatilization of.....14804
Zoology, problems of.....14776

